

**Product Information:**

KK-SICO482 is a thermoplastic, halogen free flame retardant natural insulation compound with high mechanical strength, durability, UV resistance and excellent extrusion properties. 70°C rated insulation for building wires.

Typical features of the KK-SICO482 product,

- Excellent processing properties
- No need for pre-drying
- High mechanical strength and toughness
- Low water permeability
- UV resistance

The properties of this compound comply with the requirements of,

ASTM D 1248 Type I, Class A, Category 4

ISO 1872-PE KGHN-23D006

EN 50290-2-26

VDE 0207 Teil 23 (HM2)

EN 50363-7 T16 & T17

HD 620 DMZ1

**Product Data:**

Property	Test Method	Unit	Value
<b>Physical Properties</b>			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	g/10 min	0,9
Density (23°C)	ASTM D-792	g/cm <sup>3</sup>	1,15
Hardness	ISO 868	Shore D	42
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527	MPa	15
Elongation at Break	ISO 527	%	550
Heat Ageing (100 °C, 240 h)	IEC 60811		
Δ Strength	-	%	≤ 20
UV Ageing	IEC 60811		
Δ Strength		%	20
Brittleness temperature	ISO 974	°C	< -60
Δ Strength		%	≤ 20
Tear Strength	ASTM D 1938	N/mm	15
Hot Pressure (Test at 90 °C, 4 h)	IEC 60811-508	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
<b>Chemical Properties</b>			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm <sup>2</sup>	<1
LOI	ISO 4589	%	28
Smoke Density	EN-61034	% trasmittance	>80
<b>Other Properties</b>			
DC Volume Resistivity	IEC 60093	POhm.cm	10
Dielectric Strength		kV/mm	> 20
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

**Processing:**

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

**Packaging:** It is packaged as 1000 kg in octabin.

**Storage&Handling:** KK-SICO482 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

**KABKOM KİMYA SANAYİ VE TİCARET A.Ş.**

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